

Day 73 - 28/01/2023

Q. A string is called boring if all the characters of the string are the same. You are given a string S of length N, consisting of lowercase english alphabets. Find the length of the longest boring substring of S which occurs more than once. Note that if there is no boring substring which occurs more than once in S, the answer will be 00. A substring is obtained by deleting some (possibly zero) elements from the beginning of the string and some (possibly zero) elements from the end of the string.

Input Format

- The first line of input will contain a single integer T, denoting the number of test cases.
- Each test case consists of two lines of input.
 - The first line of each test case contains an integer N, denoting the length of string S.
 - The next contains string S.

Output Format

For each test case, output on a new line, the length of the longest boring substring of S which occurs more than once.

main.py

```
n = int(input())
for _ in range(n):
    d = {}
    t = int(input())
    s = input()
    max = 0
    i = 0
    while(i<t):
        c = 1
        ss = s[i]
        while(i<t-1 and s[i]==s[i+1]):
            c += 1
            i += 1
        ss += s[i]
        max = max(max,c-1)
        d[ss] = d.get(ss,0)+1
        if(d[ss]==2):
            max = max(max,len(ss))
        i+=1;
    print(max)
```

output

```
4
3
aaa
3
abc
5
bcaca
6
caabaa
2
PS E:\Panku\Python> 
```